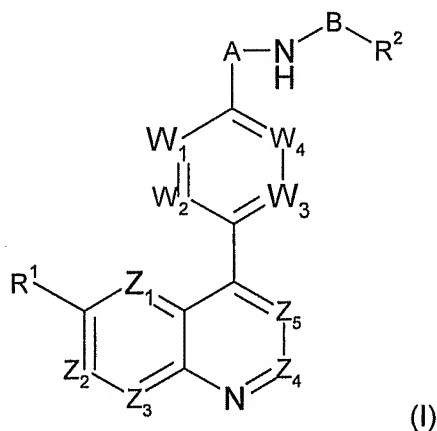


Amendments to the claims

Listing of claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A compound of formula (I):



wherein:

one of Z₁, Z₂, Z₃, Z₄ and Z₅ is N, one is CR^{1a} and the remainder are CH, or

one or two of Z₁, Z₂, Z₃, Z₄ and Z₅ are independently CR^{1a} and the remainder are CH;

R¹ and R^{1a} are independently hydrogen; hydroxy; (C₁₋₆)alkoxy unsubstituted or substituted by (C₁₋₆)alkoxy, amino, piperidyl, guanidino or amidino any of which is optionally N-substituted by one or two (C₁₋₆)alkyl, acyl or (C₁₋₆)alkylsulphonyl groups, CONH₂, hydroxy, (C₁₋₆)alkylthio, heterocyclylthio, heterocyclyloxy, arylthio, aryloxy, acylthio, acyloxy or (C₁₋₆)alkylsulphonyloxy; (C₁₋₆)alkoxy-substituted(C₁₋₆)alkyl; halogen; (C₁₋₆)alkyl; (C₁₋₆)alkylthio; trifluoromethyl; trifluoromethoxy; nitro; cyano; azido; acyl; acyloxy; acylthio; (C₁₋₆)alkylsulphonyl; (C₁₋₆)alkylsulphoxide; arylsulphonyl; arylsulphoxide or an amino, piperidyl, guanidino or amidino group optionally N-substituted by one or two (C₁₋₆)alkyl, acyl or (C₁₋₆)alkylsulphonyl groups; provided that when Z₁, Z₂, Z₃, Z₄ and Z₅ are CR^{1a} or CH, then R¹ is not hydrogen;

W_1 , W_2 , W_3 and W_4 are each independently selected from N or CR^3 ;

each R^3 is independently selected from:

hydrogen; hydroxy; halogen; trifluoromethyl; trifluoromethoxy; cyano; nitro; azido; acyl; acyloxy; acylthio; amino, mono- and di-(C_{1-6})alkylamino; and substituted and unsubstituted (C_{1-6})alkoxy, (C_{1-6})alkyl, (C_{3-7})cycloalkyl, aminocarbonyl, (C_{1-6})alkylthio, (C_{1-6})alkylsulphonyl, and (C_{1-6})alkylsulphoxide;

A is $(CRR)_n$;

B is $(CRR)_m$, $C=O$, or SO_2 ;

n is 1 or 2;

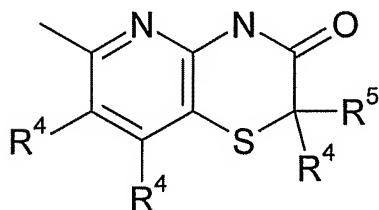
m is 1 or 2;

provided that when n is 1, m is 2; when n is 2, m is 1; and when B is $C=O$ or SO_2 then n is 2;

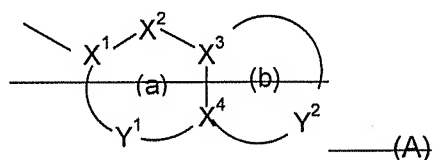
each R is independently selected from

hydrogen; halogen; trifluoromethyl; trifluoromethoxy; cyano; nitro; azido; acyl; acyloxy; acylthio; amino, mono- and di-(C_{1-6})alkylamino; and substituted and unsubstituted (C_{1-6})alkoxy, (C_{1-6})alkyl, (C_{3-7})cycloalkyl, aminocarbonyl, (C_{1-6})alkylthio, (C_{1-6})alkylsulphonyl, and (C_{1-6})alkylsulphoxide;

R^2 is a group:



substituted or unsubstituted bicyclic heterocyclic ring system of formula (A):



containing up to four heteroatoms in each ring in which

ring (a) is substituted or unsubstituted pyridine and ring (b) is substituted or unsubstituted non-aromatic;

X¹ is C;

X² is N;

X³ and X⁴ are C;

Y¹ is a 2 atom linker group each atom of which is independently selected from CR⁴;

Y² is a 4 atom linker group having S bonded to X⁴ and NHCO bonded via N to X³ in which the other atom is CR⁴R⁵; and

each R⁴ and R⁵ is independently selected from: hydrogen; (C₁₋₄)alkylthio; halo; carboxy(C₁₋₄)alkyl; halo(C₁₋₄)alkoxy; halo(C₁₋₄)alkyl; (C₁₋₄)alkyl; (C₁₋₄)alkoxycarbonyl; formyl; (C₁₋₄)alkylcarbonyl; (C₂₋₄)alkenyloxycarbonyl; (C₂₋₄)alkenylcarbonyl; (C₁₋₄)alkylcarbonyloxy; (C₁₋₄)alkoxycarbonyl(C₁₋₄)alkyl; hydroxy; hydroxy(C₁₋₄)alkyl; mercapto(C₁₋₄)alkyl; (C₁₋₄)alkoxy; nitro; cyano; carboxy; amino or aminocarbonyl optionally substituted by (C₁₋₄)alkoxycarbonyl, (C₁₋₄)alkylcarbonyl, (C₂₋₄)alkenyloxycarbonyl, (C₂₋₄)alkenylcarbonyl, (C₁₋₄)alkyl or (C₂₋₄)alkenyl and optionally further substituted by (C₁₋₄)alkyl or (C₂₋₄)alkenyl; (C₂₋₆)alkenyl; (C₁₋₄)alkylsulphonyl; (C₂₋₄)alkenylsulphonyl; aminosulphonyl wherein the amino group is optionally mono- or di-substituted by (C₁₋₄)alkyl or (C₂₋₄)alkenyl; aryl; aryl(C₁₋₄)alkyl; and aryl(C₁₋₄)alkoxy; or R⁴ and R⁵ may together represent oxo;

wherein the term acyl means a formyl or a (C₁₋₆)alkylcarbonyl group;

or a pharmaceutically acceptable salt thereof.

2. (Previously presented) A compound according to claim 1 wherein Z₅ is CH or N, Z₃ is CH or CF and Z₁, Z₂ and Z₄ are each CH.
3. (Original) A compound according to claim 1 wherein R¹ is methoxy and R^{1a} is H or when Z₃ is CR^{1a} it may be C-F.
4. (Previously presented) A compound according to claim 1 wherein W₁-W₄ are independently CR³.
5. (Original) A compound according to claim 1 wherein R³ is independently selected from hydrogen, substituted and unsubstituted (C₁₋₆)alkoxy, and NH₂.
6. (Original) A compound according to claim 1 wherein R is independently selected from hydrogen, substituted and unsubstituted (C₁₋₆)alkyl, CONH₂, COOH, hydroxy, halogen, and substituted and unsubstituted (C₁₋₆)alkoxy.
7. (Canceled)
8. (Previously presented) A compound according to claim 1 wherein R² is 4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one-6-yl.
9. (Previously presented) A compound according to claim 1 which is:
 - 6-({2-[4-(6-Methoxy-[1,5]naphthyridin-4-yl)phenyl]ethylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one;
 - 6-({2-[4-(6,8-difluoroquinolin-4-yl)phenyl]ethylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one;
 - 6-({2-[4-(8-Fluoro-6-methoxyquinolin-4-yl)phenyl]ethylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one;
 - 6-({2-[6-(6-methoxy-[1,5]naphthyridin-4-yl)pyridin-3-yl]ethylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one;

6-({2-[5-(6-methoxy-[1,5]naphthyridin-4-yl)pyridin-2-yl]ethylamino)methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one;

N-(2-{6-[6-(methyloxy)-1,5-naphthyridin-4-yl]-3-pyridinyl}ethyl)-3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazine-6-carboxamide; or

N-(2-{5-[6-(methyloxy)-1,5-naphthyridin-4-yl]-2-pyridinyl}ethyl)-3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazine-6-carboxamide;

or a pharmaceutically acceptable salt thereof.

10. (Original) A pharmaceutical composition comprising a compound according to claim 1 and a pharmaceutically acceptable carrier.

11-13. (Canceled)

14. (Previously presented) A compound according to claim 1 wherein Z_1 is N, Z_3 is CH or CF and Z_2 , Z_4 and Z_5 are each CH.

15. (Previously presented) A compound according to claim 1 wherein W_1 , W_3 and W_4 are N and W_2 is CR^3 .

16. (Previously presented) A compound according to claim 1 wherein W_2 is N and W_1 , W_3 and W_4 are independently CR^3 .

17. (Previously presented) A compound according to claim 1 wherein W_3 is N and W_1 , W_2 and W_4 are independently CR^3 .

18. (Previously presented) A compound according to claim 1 wherein W_4 is N and W_1 - W_3 are independently CR^3 .

19. (Currently amended) A compound according to claim 1 wherein R^4 is independently hydrogen, fluorine or nitro and R^5 is hydrogen.

Serial No.: 10/533,501
Group Art Unit No.: 1624

20. (Previously presented) A compound according to claim 1 wherein R is hydrogen.

21. (Previously presented) A compound according to claim 1 wherein R³ is hydrogen.